

The Rounding Rule Students Must Master

A visual guide to managing precision and
uncertain digits in physics calculations.

THE PRECISION WORKBENCH

An illustration showing the number 2.748 in large blue 3D digits. A red diagonal line with a spark is striking the digit 8. A large blue curved arrow points from the 8 down to the digit 7, indicating that the 8 is being rounded up to the 7. The background has faint gear and technical drawing patterns.

2.748

2.75

**If the dropped digit is > 5 :
Raise preceding digit by 1.**

An illustration showing the number 1.743 in large orange 3D digits. The digit 3 is faded and has a grey, dusty texture, indicating it is being dropped. The background has faint circuit and technical drawing patterns.

1.743

1.74

**If the dropped digit is < 5 :
Leave preceding digit unchanged.**

EVEN

2.745 → 2.74

The 5 is simply dropped.

What if the
dropped digit
is exactly 5?

2.735 → 2.74

ODD

The preceding digit is raised
by 1 to make it even.

The Even-Odd Convention ensures statistical balance
across multiple calculations.



**You've Learned the Theory.
Let's Test Them Now.**

$$E=mc^2$$



Turn theory into marks with **unlimited MCQs, smart analysis, and focused revision.**

Practice Now



At prep.topall.app

Key Highlights

- » Free Study Material, Videos & Infographics
- » Push Your Limits with Level-Based Challenges
- » Climb the Leaderboard Among Fellow Aspirants
- » Practice Unlimited MCQs for NEET & JEE
- » Get Clear Explanations, Not Just Marks
- » Track Your Performance Smarter



2.99792458 × 10⁸ m/s

99792458

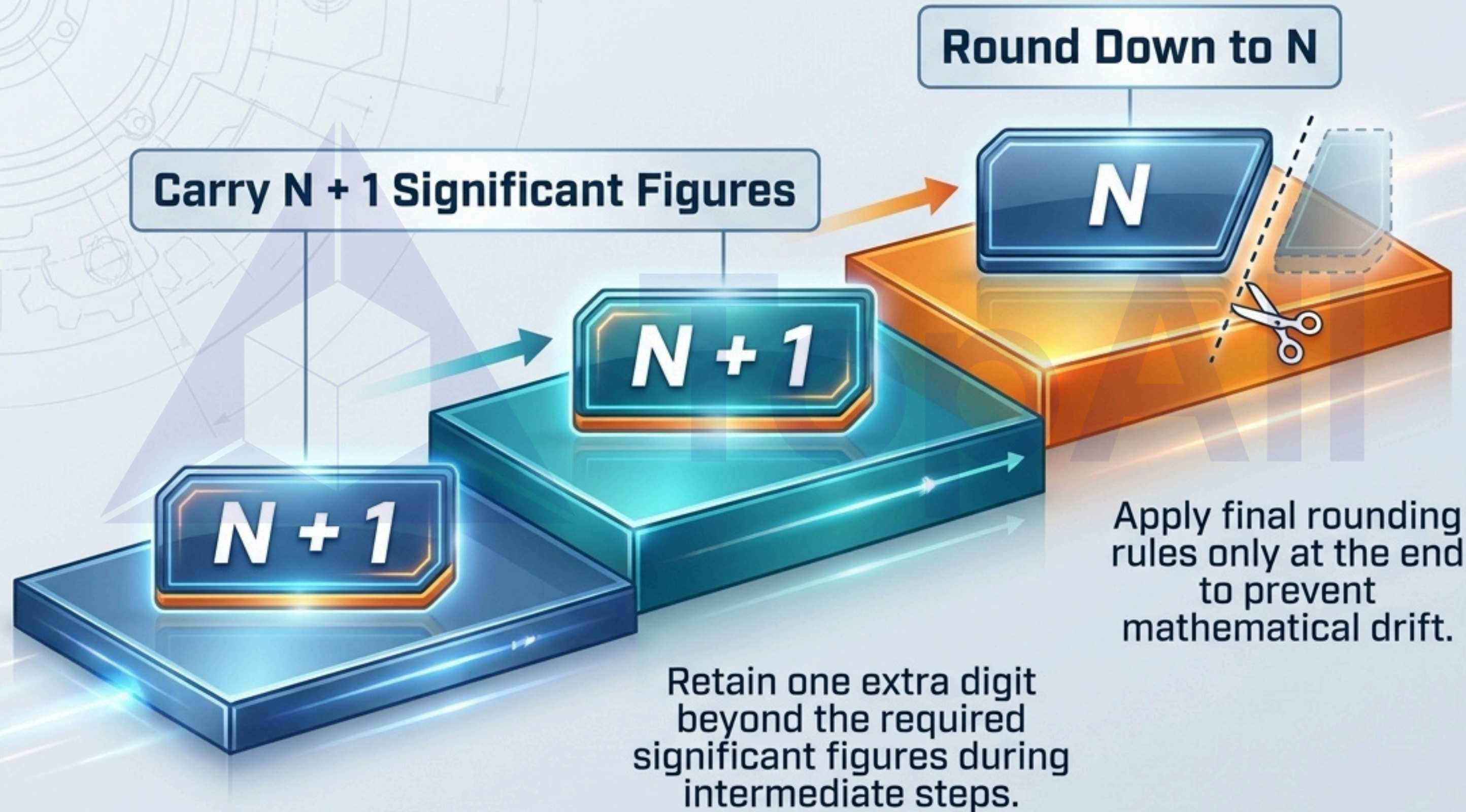
99792458

99792458

3 × 10⁸ m/s

Rounding converts hyper-precise constants into functional values for complex, multi-step computations.

THE PRECISION WORKBENCH





Round at the End

Keep one extra digit during intermediate steps to avoid compounding errors.



Even-Odd Rule for 5

If dropping exactly 5, always round to the nearest even preceding digit.



Do Not Overstate Precision

A final calculation can never be more accurate than the least precise input measurement.



You've Learned the Theory.

Now Let's Test It.

Reading notes gets you knowledge.

Practicing MCQs gets you marks.

That's exactly what TopAll Pro is built for.

Try TopAll Pro Now

What TopAll Pro Does Differently

-  **Stuck? Snap it. Solve it. — Doubts AI**
Photo → step-by-step solution in seconds, 24/7
-  **Your AI Coach finds your blind spots**
Concept-level weakness detection — not just chapter-level
-  **4.5 Lakh+ questions. Never run out.**
13× more content than any other prep app in India
-  **Build your own test in 60 seconds**
Pick a chapter, set difficulty — AI does the rest instantly.
-  **AI Recommendation that helps you improve**
AI Recommendation Analysis your Tests and tell you where you need to improve.



Practice the moment you finish studying
Jump in while the concept is still fresh in your head

4.5L+
MCQs

1.5L+
Students

AI Powered
In-Depth Analysis